Pappus Theorem 2

7. Determine the volume of the solid obtained by rotating the region Answer:

bounded by , the x-axis and the y-axis about the x-axis.

9. Determine the volume of the solid obtained by rotating the region Answer:

bounded by and about the y-axis. For this problem assume that .

Solution:

7. Determine the volume of the solid obtained by rotating the region bounded by , the x-axis and the y-axis about the x-axis.

9. Determine the volume of the solid obtained by rotating the region bounded by and about the y-axis. For this problem assume that .